

HISD Secondary Curriculum and Development

2016-2017 Scope and Sequence

Mathematics - Precalculus

11/2/1	29 Days Aug. 22 – Sept. 30, 2016		The recommended number of class periods is less than the number of days in the grading
1st Cycle			cycle to accommodate differentiated instruction, extended learning time, and assessment day Complete instructional planning information and support are in the HISD Curriculum documents.
Unit	# Class Periods	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:	
		activities strategic each un associal mathemacquire e PC.11 works 6 PC.18 informacolution of PC.18 using langue 6 PC.18 mathe 6 PC.18 mathe 6 PC.18	thematical Process Standards are integrated throughout the course in all is and lessons. Teachers should refer to these standards for instructional es and depth of rigor. Specific process standards have been highlighted for it, but these process standards should not be the only process standards led with the daily lessons. **Matical Process Standards**. The student uses mathematical processes to and demonstrate mathematical understanding. The student is expected to A Apply mathematics to problems arising in everyday life, society, and the place. **B Use a problem-solving model that incorporates analyzing given nation, formulating a plan or strategy, determining a solution, justifying the on, and evaluating the problem-solving process and the reasonableness of solution. **C Select tools, including real objects, manipulatives, paper and pencil, and ology as appropriate, and techniques, including mental math, estimation, sumber sense as appropriate, to solve problems. **D Communicate mathematical ideas, reasoning, and their implications multiple representations, including symbols, diagrams, graphs, and age as appropriate. **E Create and use representations to organize, record, and communicate ematical ideas. **C Possible Communicate mathematical relationships to connect and communicate ematical ideas. **G Display, explain, or justify mathematical ideas and arguments using se mathematical language in written or oral communication.
Unit 1: Values of Trigonometric Functions Students determine the relationships among the unit circle, trigonometric functions, and trigonometric values when given measures in degrees, minutes, and seconds or radian based on the unit circle.	(90-minutes each) or 8 class periods (45-minutes each) (5-C.10 Communicate mathematical ideas, reasoning using multiple representations, including symbols, dianguage as appropriate. (5-PC.1E Create and use representations to organize, mathematical ideas. (5-PC.1E Create and use representations to organize, mathematical ideas. (6-PC.1E Create and use representations to organize, mathematical ideas. (7-PC.1E Create and use representations to organize, mathematical ideas. (8-PC.1E Create and use representations to organize, mathematical ideas. (8-PC.1E Create and use representations to organize, mathematical ideas. (8-PC.1E Create and use representations to organize, mathematical ideas, reasoning using multiple representations, including symbols, dianguage as appropriate. (8-PC.1E Create and use representations to organize, mathematical ideas. (8-PC.1E Create and use representations to organize, mathematical ideas. (9-PC.1E Create and use representations to organize, mathematical ideas, reasoning using multiple representations, including symbols, dianguage as appropriate, and techniques, including and techni		Communicate mathematical ideas, reasoning, and their implications multiple representations, including symbols, diagrams, graphs, and age as appropriate. E Create and use representations to organize, record, and communicate ematical ideas. If and Measure. The student uses process standards in mathematics to oppopriate techniques, tools, and formulas to calculate measures in atical and real-world problems. The student is expected to: A Determine the relationship between the unit circle and the definition of a fic function to evaluate trigonometric functions in mathematical and real-problems. B Describe the relationship between degree and radian measure on the

























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